

ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: **B963094**
Page 1 of 2 Pages

Issue: **1**
Issue Date: **9/10/2010**
Effective Date: **11/5/2010**

A. Construction			<u>Diameters (mm)</u>
1)	Component 1	9 X 1 PAIR	
	a) Conductor	24 (7/32) AWG TC	0.61
	b) Insulation	0.25 Wall, Nom. PVC, Semi Rigid	1.12
	(1) Color Code	Alpha Wire Color Code B	

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	4	WHITE-ORANGE	7	WHITE-BLUE
2	WHITE-BROWN	5	WHITE-YELLOW	8	WHITE-VIOLET
3	WHITE-RED	6	WHITE-GREEN	9	WHITE-SLATE

- | | | | |
|----|----------------|---|------------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 31.5 Twists/meter (min) | |
| 2) | Cable Assembly | 9 Components Cabled | |
| | a) Twists: | 13.1 Twists/meter (min) | |
| | b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) | Shield: | A/P/A Tape, 25% Overlap, Min. | |
| | a) Drain Wire | 24 (7/32) AWG TC | |
| | b) Braid | TC, 70% Coverage, Min. | |
| 4) | Jacket | 0.81 Wall, Nom., PVC | 9.12 (9.62 Max.) |
| | a) Color(s) | GREY | |
| | b) Ripcord | 1 End 810 Denier Nylon | |
| | c) Print | ALPHA WIRE-* P/N B963094 | |
| | | 0.23MM2 (24AWG) (UL) TYPE CM 105C OR AWM 2464 | |
| | | VW-1 CE ROHS (SEQ METERS) | |
| | | * = Factory Code | |

B. Applicable Specifications

- 1) UL
 - a) Component 1 AWM/STYLE 10002 105°C / 300 V_{RMS}
 - b) Overall AWM/STYLE 2464 80°C / 300 V_{RMS}
CM 105°C
VW-1
- 2) IEC
 - EN 60332-1 Flame Behavior
 - EN 60332-2 Flame Behavior
- 3) CE: LVD 73/23/EEC Amendment 93/68/EEC

C. Environmental Compliance

- 1) EU Directive 2002/95/EC(RoHS):
All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
- 2) REACH Regulation (EC 1907/2006):
This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

D. Physical & Mechanical Properties

- 1) Temperature Range -30 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 72 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 75.768 pf/m @1 kHz, Nominal
- 3) Ground Capacitance 137.76 pf/m @1 kHz, Nominal
- 4) Characteristic Impedance 82 Ω

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Page 2 of 2 Pages

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|------------------|---|
| 5) Inductance | 0.6232 $\mu\text{H}/\text{m}$, Nominal |
| 6) Conductor DCR | 85.28 Ω/Km @20°C, Nominal |
| 7) OA Shield DCR | 9.84 Ω/Km @20°C, Nominal |

F. Other

- | | |
|--------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT | 30 x 14 x 12 Continuous length |
| b) 1640 FT | 24 x 14 x 12 Continuous length |
| c) 328 FT | 12 x 10 x 5 Continuous length |
| d) 164 FT | 12 x 10 x 5 Continuous length |
- [Spool dimensions may vary slightly]*

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